## In the Claims:

1. (currently amended) A method for acquiring packet synchronization in a packet type communication network, comprising the steps of:

providing a data packet having a framing format including a preamble split into a plurality of subpreambles of non-interleaved symbols <u>followed by data symbols</u>;

for individual subpreamble and for combined subpreamble options, determining the following parameter:

$$\beta_i = \frac{1}{T_i^2} \int_{t_i}^{t_i+T_i} r(t) \mathbb{E}e^{-j\phi_i} dt;$$

where  $T_i$  is the preamble or subpreamble duration in each option,  $t_i$  is the preamble or subpreamble start time,  $\beta_l$  is the approximation of  $\alpha_l$ , and  $\hat{\phi}_i$  is the estimated phase shift in each option; and

determining synchronization using correlation with a priori known symbols using the subpreamble or combined subpreamble option which provides the lowest  $\beta$ .

- 2. (currently amended) The method of claim 1 wherein said plurality of subpreambles is two, the two subpreambles being separated in time by other <u>non-data</u> symbols.
- 3. (previously presented) The method of claim 2 wherein said other symbols are one of other data signals or a priori known symbols.

4. (currently amended) A method for acquiring packet synchronization in a packet type communication network, comprising the steps of:

providing a data packet having a framing format including a preamble split into a plurality of subpreambles of non-interleaved symbols <u>followed by data symbols</u>;

determining whether any of said subpreambles have been affected by at least one of impulse noise or burst noise; and

determining determine synchronization using the subpreambles of said plurality of subpreambles which have not been affected by said at least one of impulse noise or burst noise.

- 5. (currently amended) The method of claim 4 wherein said plurality of subpreambles is two, the two subpreambles being separated in time by other <u>non-data</u> symbols.
- 6. (previously presented) The method of claim 5 wherein said other symbols are one of other data signals or a priori known symbols.
- 7. (new) The method of claim 1 wherein said preambles are separated by a number of non-data symbols greater than a predetermined typical noise impulse length.
- 8. (new) The method of claim 2 wherein said preambles are separated by a number of non-data symbols greater than a predetermined typical noise impulse length.

- 9. (new) The method of claim 3 wherein said preambles are separated by a number of non-data symbols greater than a predetermined typical noise impulse length.
- 10. (new) The method of claim 4 wherein said preambles are separated by a number of non-data symbols greater than a predetermined typical noise impulse length.
- 11. (new) The method of claim 5 wherein said preambles are separated by a number of non-data symbols greater than a predetermined typical noise impulse length.
- 12. (new) The method of claim 6 wherein said preambles are separated by a number of non-data symbols greater than a predetermined typical noise impulse length.